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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Takashi MATSUMOTO : Attorney Docket No. 2005_1794A
Serial No. 10/559,390 : **Mail Stop: PCT**
Filed December 6, 2005 :

METHOD OF ACCURATELY POSITIONING
ANCHOR BOLT TO FOUNDATION BY
SWING-TYPE ANCHOR BOLT
[Corresponding to PCT/JP2004/008313
Filed June 14, 2004]

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicant requests consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☐ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/_____;
and/or
- ☐ each reference previously cited in prior parent application Serial No.
_____.

1a. [X This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☐ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☒ the concise explanation contained in the specification of the present application at pages 6-7,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☒ the concise explanation set forth below or on a separate sheet attached to the reference:

Unexamined Utility Model Registration Application Publication No. 5-38036:

As an improvement of this method, a technique disclosed in Patent Document **AJ** is proposed. Instead of the temporary reference construction, it is placed in a standing manner on an outside of a corner of the foundation concrete form including a supporting leg which can be adjusted in height freely, and a hooking portion for the leveling line arranged on a L-shaped side plate at an upper end thereof so as to be capable of sliding in the horizontal direction. This technique has no difference from the conventional technique except that replacement of the leveling line can easily be performed. Therefore, the problems described in the specification of the present application are not solved at all.

Unexamined Patent Application Publications No. 2002-242201 and 2000-54397:

One of them is aiming at accurately positioning the anchor bolt by fixing the same to concrete form via the supporting means, and is proposed in Patent Document **AK** and Patent Document **AL**. However, the proposal of Patent Documents **AK** and **AL** are both premised on accuracy of the concrete form for building the foundation, and aimed at improvement of mounting accuracy of the anchor bolt to an anchor bolt supporting member or an anchor bolt holding member mounted directly or indirectly thereto. However, it seems that required positioning accuracy of the anchor bolt cannot be achieved sufficiently in a practical sense.

The concrete form for building the foundation is, as long as it is the one currently used, not able to avoid slight displacement due to a high pressure exerted when casting concrete. Therefore, in spite of an increase of positioning accuracy in support of the anchor bolt supporting member itself, displacement occurs on the side of concrete form and, accordingly, displacement of the anchor bolt

supporting member itself may result. Furthermore, the high pressure exerted when casting concrete is also exerted to the anchor bolt which is supported by the supporting member or the like. Therefore, the supporting member cannot support the pressure, and hence slight displacement cannot be avoided unless it has a substantially solid structure.

Therefore, with the technique in which the anchor bolt is fixed to the concrete form via the supporting means as shown in Patent Documents **AK** and **AL**, the positioning accuracy cannot be improved sufficiently.

Unexamined Patent Application Publications No. 2000-352120 and 5-141095:

Alternatively, there are other techniques proposed in Patent Document **AM** and Patent Document **AN**, in which the lower portion is fixed to an understructure such as an anchor plate having an anchor bolt holding member or a fixing leg, and the upper portion is fixed to the superstructure such as a positioning plate or a positioning jig so as to construct a solid anchor frame, and then the understructure is fixed to leveling concrete or the like, thereby positioning the anchor bolt at a predetermined position.

The objects of the Patent Documents **AM** and **AN** are, to provide a positioning plate in which an upper end screw portion of the anchor bolt can be inserted and removed easily for the former, and to improve workability by suspending plumb bobs from four sides of a jig body of the superstructure for the latter. However, as described above, both of the techniques are premised on the technique to realize the accurately positioning the anchor bolt by constructing the solid anchor frame as described above.


The anchor frames shown in Patent Documents **AM** and **AN** are constructed extremely solidly, and hence they can resist the pressure from the concrete to be cast and can maintain the accuracy relatively easily when it is accurately positioned. However, in such a structure, the longer the anchor bolt becomes, the higher the strength of the frame is required. Therefore, the cross-section of the frame further increases, and the weight also increases correspondingly, whereby workability is deteriorated and hence increases in cost cannot be avoided.

5. ☐ A foreign patent office search report citing one or more of the references is enclosed.
6. ☐ Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

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February 27, 2006

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INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

ATTY DOCKET NO.
2005_1794ASERIAL NO.
10/559,390U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEAPPLICANT
Takashi MATSUMOTOLIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)FILING DATE
December 6, 2005

GROUP

Date Submitted to PTO: February 27, 2006

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ	5-38036	5/1993	JP				
	AK	2002-242201	8/2002	JP				
	AL	2000-54397	2/2000	JP				
	AM	2000-352120	12/2000	JP				
	AN	5-141095	6/1993	JP				

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	
	AP	
	AQ	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of form with next communication to applicant.